

Translation

PATENT COOPERATION TREATY

PCT/DE2003/000071



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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| Applicant's or agent's file reference<br>2002P17491WO                                      | <b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |   |
| International application No.<br>PCT/DE2003/000071   | International filing date ( <i>day/month/year</i> )<br>09 January 2003 (09.01.2003)   | Priority date ( <i>day/month/year</i> ) |
| International Patent Classification (IPC) or national classification and IPC<br>H04L 12/56 |   |   |
| Applicant<br>SIEMENS AKTIENGESELLSCHAFT  |   |   |

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| 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.  |
| 2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.<br><br><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).<br><br>These annexes consist of a total of _____ sheets.  |
| 3. This report contains indications relating to the following items:<br><br>I <input checked="" type="checkbox"/> Basis of the report<br>II <input type="checkbox"/> Priority<br>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability<br>IV <input type="checkbox"/> Lack of unity of invention<br>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement<br>VI <input type="checkbox"/> Certain documents cited<br>VII <input type="checkbox"/> Certain defects in the international application<br>VIII <input type="checkbox"/> Certain observations on the international application |

|   |  |
|---|--|
| Date of submission of the demand<br>20 November 2003 (20.11.2003) | Date of completion of this report<br>04 February 2004 (04.02.2004) |
| Name and mailing address of the IPEA/EP<br><br>Facsimile No.      | Authorized officer<br><br>Telephone No.                            |

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/000071

## I. Basis of the report

1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

☐ the international application as originally filed.

☒ the description, pages 1-11, as originally filed,  
pages \_\_\_\_\_, filed with the demand,  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☒ the claims, Nos. 1-8, as originally filed,  
Nos. \_\_\_\_\_, as amended under Article 19,  
Nos. \_\_\_\_\_, filed with the demand,  
Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☒ the drawings, sheets/fig 1/1, as originally filed,  
sheets/fig \_\_\_\_\_, filed with the demand,  
sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

## 2. The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/fig \_\_\_\_\_

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

## 4. Additional observations, if necessary:

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

|                               |        |       |     |
|-------------------------------|--------|-------|-----|
| Novelty (N)                   | Claims | 1 - 8 | YES |
|                               | Claims |       | NO  |
| Inventive step (IS)           | Claims | 1 - 8 | YES |
|                               | Claims |       | NO  |
| Industrial applicability (IA) | Claims | 1 - 8 | YES |
|                               | Claims |       | NO  |

## 2. Citations and explanations

The present invention relates to a method (claim 1) for controlling an exchange of data between mobile subscribers. The corresponding mobile radio communications network (claim 4) is also disclosed.

The closest prior art is described in D1: US 6 233 458. Said document describes a subscriber that is managed as a function of its current location in a specific control node. An address register is stored in the control network node. A target address is read out of incoming data packets and compared with the address register by means of a search function.

The subject matter of independent claim 1 differs from this prior art in that, when the target address is present in the address register, the data packets are treated exclusively by the control network node and are retransmitted and, if the target address is not present in the address register, the data packets are transmitted by the control network node to a further network node.

The problem solved by this special technical feature consists in improving the routing of packet data.

D1 discloses only a control node which transmits packet data to a packet network. However, D1 does not disclose a control network node which exclusively treats data packets if the target address is present in the address register.

In D1, the data packets are always transmitted to a further network node, i.e. if the target address is present in the address register. In the present invention, the data packets are transmitted to a further network node only if the target address is not present in the address register. An advantage of this solution is that the data traffic between a SGSN and a GGSN is significantly reduced. None of the known documents proposes the solution chosen by the present invention. Claims 1-8 are therefore novel and inventive.